

ACCESSION NR: AT4008702

\$/2982/63/000/044/0105/0109

AUTHOR: Tishkova, V. N.; Isagulyants, V. I.; Papok, K. K.; Zuseva, B. S.

TITLE: Synthesis of a new antioxidative fuel oil additive for engines operating under a loading

SOURCE: Moscow. Institut neftekhimicheskoy i gazovoy promy\*shlennosti. Trudy\*, no. 44, 1963. Neftekhimiya, pererabotka nefti i gaza, 105-109

TOPIC TAGS: lubricating oil, EP, extreme pressure, extreme pressure lubricant, antioxidant, lube oil additive, detergent additive, phosphorodithioic acid. diester-calcium salt, dithiophosphoric acid.diester-calcium salt, AN-22K additive, phosphorodithioic acid.octylphenol diester, dctylphenol, SB-3 detergent additive, detergent oil, detergent lubricating oil, lubricating oil detergent

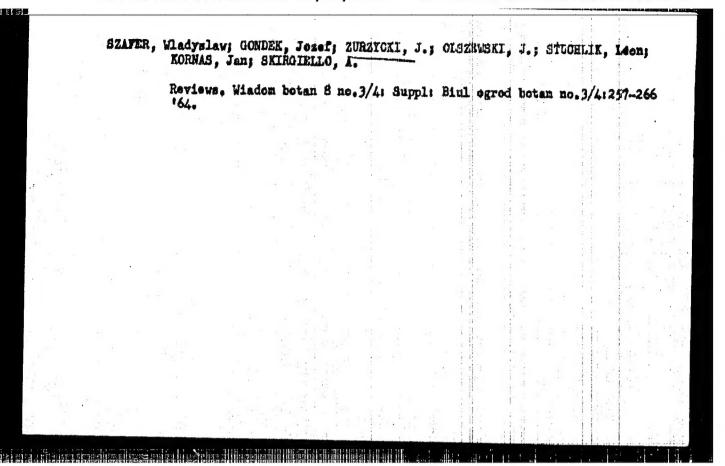
ABSTRACT: The authors synthesized lube oil additive AN-22K, a neutral calcium salt of the dioctylphenyl ester of dithiophosphoric acid, in four stages: 1) alkylation of phenol with disobutylene in the presence of the cationic reagent KU-2; 2) preparation of octylphenol disulfide by reaction of octylphenol with sulfur monochloride; 3) preparation of the diester of dithiophosphoric acid by reaction of the octylphenol disulfide with phosphorus pentasulfide; 4) neutralization of the acid obtained by calcium hydroxide. The additive is a solid of 1/2

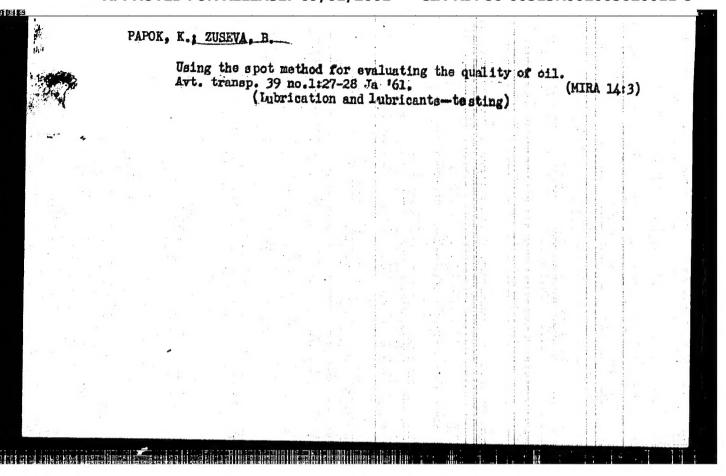
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ASSOCIATIO	N: Institut ne	ftekhimiches	koy i gazovo	v promv*sh			
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tkin, P. P.	Kuliyev. A.	Ye.; Afanas yı M.; Zeynalov	C A	CORUCTION	aya, T. A.	; Somov, V	. A.;
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L 45678 .66 EWT(m)/T DJ /WE ACC NR: AP6023624 SOURCE CODE: UR/0318/65/000/004/0021/0024 AUTHOR: Botkin, P. P.; Vipper, A. B.; Zuseva, B. S.; Kreyn, S. E.; Papok, K. K.; ORG: none TITIE: New composition of diesel oil additives SOURCE: Neftepererabotka i neftekhimiya, no. 4, 1966, 21-24 TOPIC TAGS: diesel oil, antioxidant additive, lubricant additive ABSTRACT: A composition of additives to motor fuels was developed in order to match imported additives in their effectiveness when taken in similar concentrations. The composition includes the additives BFK (4%) and IANI-317 (0.25%). The BFK additive is the barium salt of the products of condensation of alkylphenol with formaldehyde, and the LANI-317 additive is zinc dialkyldithiophosphate in isopropyl alcohol and C12-C16 alcohols. In wetting and antioxidation properties, the new composition is practically equivalent to foreign additives (those of the Monsanto Co.) designed for oils of the first series of the international classification. The new composition also has advantages over antiwear and wetting agents in the operation of a diesel motor on low-sulfur fuel. The use of the new composition of additives increases the motor potential of fast diesel engines and reduces their oil consumption. Orig. art. Card 1/2 665.4166.022.3:621.892 UDC:

ACC NR: AP6023624			
has: 3 tables.			
SUB CODE: 11/ SUBM DATE:	none/ ORIG REF:	007/ OTH REF: 001	
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ABSTRACT:

\$07/81-59-16-58532

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 414 (USSR)

Isagulyants, V.I., Tishkova, V.N., Papok, K.K., Zuseva, V.S. AUTHORS:

Investigation in the Field of the Synthesis of Admixtures to Petroleum TITLE: Products. Communication I. The Synthesis of Phenolates of Sulfides and

Disulfides of Substituted Phenols

PERIODICAL: Tr. Vses. n.-i. in-t po pererabotke nefti i gaza i polucheniyu iskusstv. zhidk. topliva, 1958, Nr 7, pp 378-389

With the aim of studying the synthesis of phenolates of sulfides and disulfides of various substituted phenols and the effect of the composition and the structure on their properties as admixtures to lubricants, the authors synthesized and investigated several alkylphenolates containing various quantities of S in the molecule, various alkyl radicals and various metals. It has been found that the solubility of the phenolates depends on the nature of the substituting radical and increases with an increase in the length of the side chain in the aromatic ring. Phenolates

Card 1/2 with a long chain of Ch or containing an aralkyl radical do not dissolve

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SOV/81-59-16-58532

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Investigation in the Field of the Synthesis of Admixtures to Petroleum Products. Communication I. The Synthesis of Phenolates of Sulfides and Disulfides of Substituted Phenols

in mineral oil. The most efficient admixtures are phenolates of alkali or alkali earth metals. An increase in the amount of S up to 13 - 15% improves the antioxidation properties of the phenolates. The most active admixtures are phenolates containing a tertiary alkyl radical with 8 - 10 carbon atoms. The initial substituted phenolates for the preparation of efficient admixtures should be substituted phenols obtained in the alkylation of phenol by isoolefines, but not by chlorinated paraffin.

S. Rozenfel'd.

Card 2/2

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"A Tiny Magnetometer for the Measurement of Very Weak Magnetic Fields," a paper submitted at the International Conference on Physics of Magnetic Phenomena, Sverdlovsk, 23-31 May 56.

ZUSCOV, L.N. and DOLGINOV, S.Sh.

"A Tiny Magnetometer for the Measurement of Very Weak Magnetic Fields" Moscow

Conference on Physics of Magnetic Phenomena, May 1956, Sverdlovsk, USSR

36301 3/197/62/000/005/001/002 B104/B102

Vitolin'sh, A., Zush,

TITLE:

An experimental investigation of the quick-operation of a

trigger made of diffusion-type transistors

Akademiya nauk Latviyskoy SSR. Izvestiya, no. 3(176), 1962, PERIODICAL: 33 - 38

The construction of triggers made of diffusion-type transistors with starting frequencies > 10 Mcps is studied. In analogy to vacuum-tube triggers the band width of such triggers is estimated to

 $S/2\pi C = (120...240) \cdot 10^6$  cps.  $S = \frac{\partial I_2}{\partial U_1} |_{U_2} = const = (30...19)$  ma/v, C is

the sum of shunting capacitances (C = 25 pf). The maximum pulse repetition frequency is  $1/2 \, \tau_r$ ,  $\tau_r$  being the recombination time. The quick operation

of diffusion-type transistors makes quick-acting starting and clamping diodes necessary. The maximum starting frequency of the trigger shown in Fig. 2 is 20 Mcps. The starting-pulse height at the input of the pulse

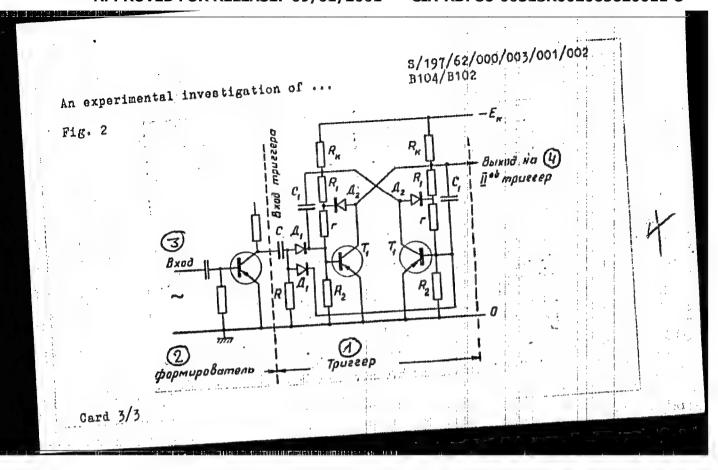
Card 1/3

An experimental investigation of ... S/197/62/000/003/001/002

shaper should be 2.2.v, the pulse height at the trigger output is 2.4 v. fl 402 (P 402) and fl 403 (P 403) triodes and diodes with a recombination the diodes limit the frequency band. There are 1 table and 3 figures.

ASSOCIATION: Institut fiziki AN Latv. S3SR (Institute of Physics of the SUBMITTED: May 30, 1961

Fig. 2. Trigger with pulse shaper. Legend: (1) trigger; (2) pulse shaper; (3) input; (4) output to second trigger.



	VITOLIN'SH, A. [Vitolins, A.]; ZUSH, Ya. [Zuss, J.]	: :
	Experimental study of the response time of a trigger circuit drift transistors. Vestis Latv ak no.3:33-38 '62.	using
	1. Institut fiziki AN Latviyskoy SSR.	,
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ZUSHMANOVICH, L.B., insh; TOGUSHOV, I.T., insh.

Diagram of operating conditions of turbines with double automatic extraction of steam. Teploenergetika 7 no.2; 24-30 F '60. (MIRA 13:5)

1. Donetskoye otdeleniye Gooudarstvennogo treata po organizatsii i ratsionalizatsii elektrostantsiy. (Steam turbines)

Zusin, S.1.

AID P - 4013

Subject

: USSR/Power

Card 1/1

Pub. 26 - 2/31

Authors

Zusin, S. I. and Krigmont, V. D., Engs.

Title

Improving anthracite culm combustion.

Periodical: Elek. sta., 11, 4-7, N 1955

Abstract

The authors report on the remodeling of a double-drum boiler unit at one of the southern power plants. The work performed on the boiler is explained in great detail. A two-stage combustion system was installed.

Seven diagrams.

Institution: None

Submitted : No date

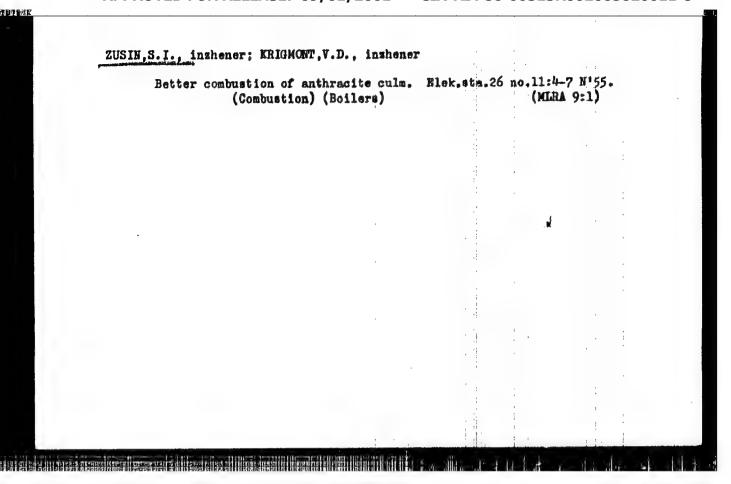
ZUSIN, R. Ya.; KONCHAKOVA, M. I.; FOMINA, I. C.

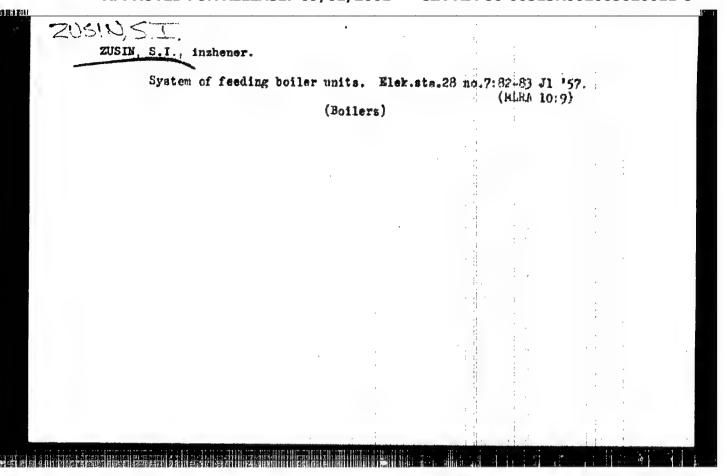
Clinical anatomical characteristics of [brain] stem insults.
Nauch. trudy Inst. nevr. AMN SSSR no.1:161-177 '(0).

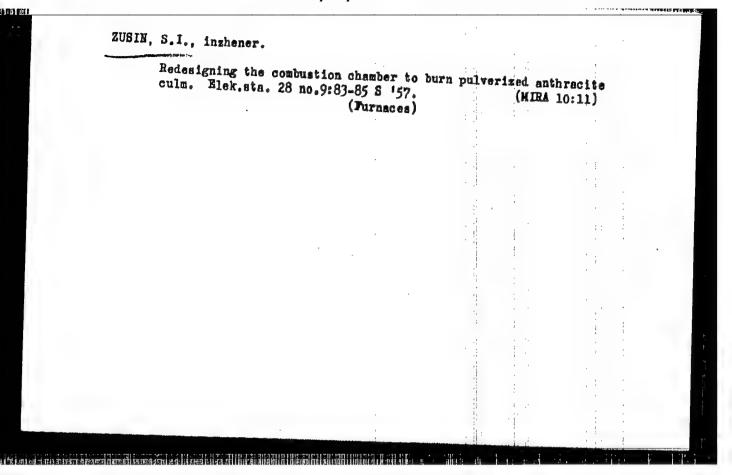
(NIRA 15:7)

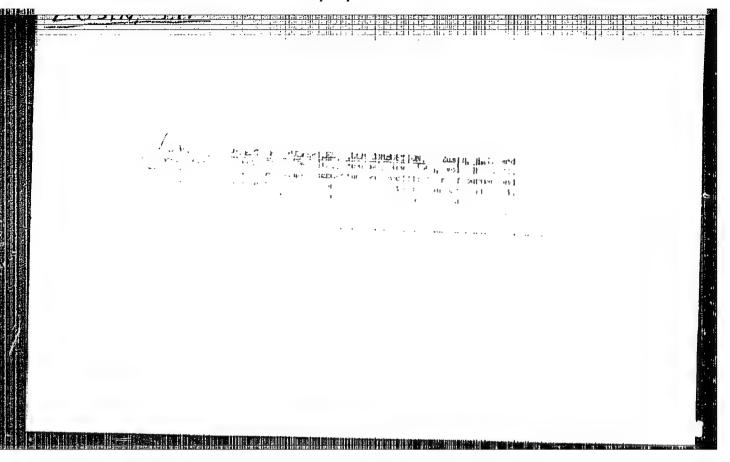
1. Institut nevrologii AMN SSSR.

(CEREBROVASCULAR DISEASE)









BUSIN, S.I

501-91-58-9-4/29

AUTHOR:

Zusin, S.I. and Parfenov, Ye.N.; Engineers

TITLE:

Measures for Economizing on Firing Mazut (Meropriyatiya po

ekonomii rastopochnogo mazuta)

PERIODICAL:

Energetik. 1958, Nr 9, pp 10-12 (USSR)

ABSTRACT:

To ensure the proper supply of air to the firing chamber, necessary for the economical burning of mazut during the firing of a boiler, the draft fan may be switched on. Regulations, however, forbid this before the temperature of gulations, however, forbid this before the temperature of the exhaust gases has reached 120°C, for fear of causing gastorrosion at the cold end of the air-heater. A study of old air-heaters, removed after 25 years service, revealed no air-heaters, removed after 25 years service, revealed no trace of gas corrosion. The author concludes that for firing trace of gas corrosion. The author concludes that for firing a boiler which has been on reserve for less than 24 hours, the fan may be switched on at the beginning of the process with resultant saving in nazut. Where a boiler is being repeatedly shut off on reserve, rapid cooling takes place through natural draft. To prevent this, a swinging valve can be installed in the inlet of the flue-gas pump, automatically cutting off any natural draft. When firing from cold, after a long stoppage for general maintenance or major reserve.

Card 1/2

## "APPROVED FOR RELEASE: 09/01/2001 CIA-

CIA-RDP86-00513R002065620011-8

Measures for Economizing on Firing Mazut

SOV-91-58-9-4/29

pairs, a metal cone may be fitted into the nozzle of the burner to assist firing, instead of using an oil flare. The cone is heated by the burner flame and causes immediate reignition if the burner flame is extinguished due to pulbilizing device is shown in Figure 3). An even better staforated metal cap designed to fit over the end of the burner nozzle. There are 4 diagrams.

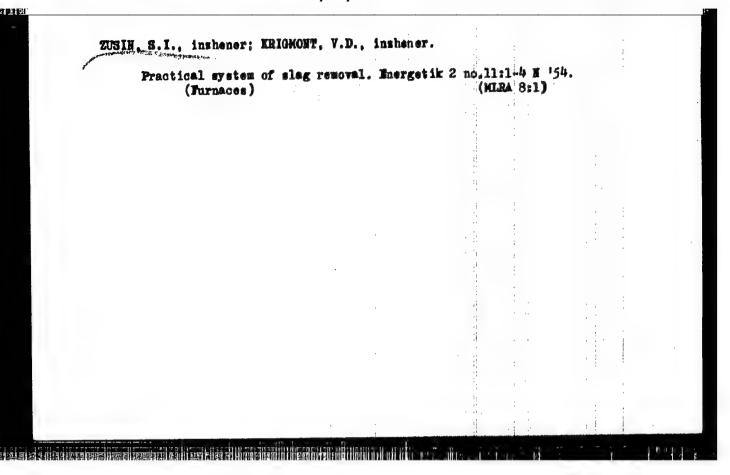
1. Boilers--Operation 2. Fuels--Economic aspects

Card 2/2

ZUSIN, S. Long inshener; ERIGHOFT, V.D., inzhener; SIDOROV, P.A., inzhener.

Arrangement for grinding anthracite culm. Blak.sta. 27 no.414-18
Ap '56.

(Grushing machinery) (Coal, Pulverized)



#### CIA-RDP86-00513R002065620011-8 "APPROVED FOR RELEASE: 09/01/2001

AID P + 1148

ZUSIN, S.I.

Subject USSR/Electricity

Card 1/1 Pub. 29 - 1/31

Authors Zusin, S. I., Eng. and Krigmont, V. D., Eng.

Title Efficient method of elimination of slag

Periodical Energetik, 11, 1-4, N 1954

The authors describe the method of removing slag from furnaces in a molten or half-molten state. The ash is Abstract

quenched and broken up by water jets and carried away by sluicing, which is done continuously. Five photographs and drawings.

Institution: None

Submitted No date

### "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065620011-8

. AUTHOR:

Zusin, S.I. (Engineer)

SOV/98-58-10-4/25

TITLE:

The heat lost by mechanical under-combustion in relation to boiler operating conditions (Izmeneniye poteri tepla a meldianicheskim nedozhogom v zavisimosti ot rezhima rahoty kutloagregata )

PERIODICAL:

Teploenergetika, 1958, No.10, pp. 17-18 (USSR)

ABSTRACT:

The relationship between the heat loss due to mechanical undercombustion and the length of time of operation of the boiler was investigated together with other operating conditions on boilers of 150 tons/hour burning pulverised anthracite. The boiler and fuel are briefly described. When the boilers are in good condition and operating normally the loss due to mechanical under-combustion is 3 - 4%: this value is attained 50 - 200 hours after lighting the boiler. Immediately after lighting the boiler the loss is 6 - 20%: it decreases gradually as the set heats up and as slag is deposited in the furnace chamber. Graphs of the relationship between the heat loss due to mechanical under-combustion and the length of time that the boiler has been in operation are given in Fig.1. The loss, highest immediately after a major overhaul (Curve.1.), is somewhat: less after current maintenance (Curve.2.), and is still less after shut-down for reserve for 6 hours (Curve.3.). For a large part of the year the boilers under consideration operate at peak load, but the irregularity of the loading is increasing year by year. A short

Card 1/2

The heat lost by mechanical under-combustion in relation to boiler operating conditions.

shut-down in reserve increases the loss from 3 - 6%, and recovery is not complete until the boiler has operated for 50 hours. Data were collected relating to boilers that had been lit-up more than 500 times. Study of the data shows that when the time of operation of the boiler is less than the time required to attain a minimum loss value, there is a straight-line relationship between the heat loss due to mechanical under-combustion and the number of times that the boiler has been lit. The corresponding graphs are given in Fig.2. The data given in the article should be useful in determining the best way of operating a number of boilers serving peak loads. There are 2 figures.

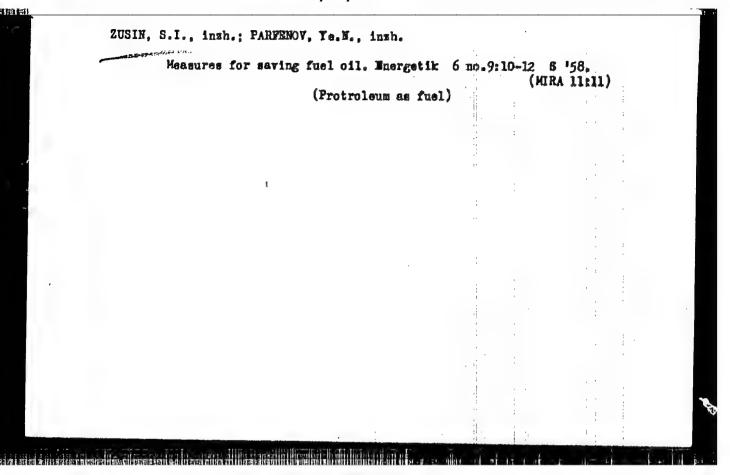
ASSOCIATION: Donbassenergo

Card 2/2

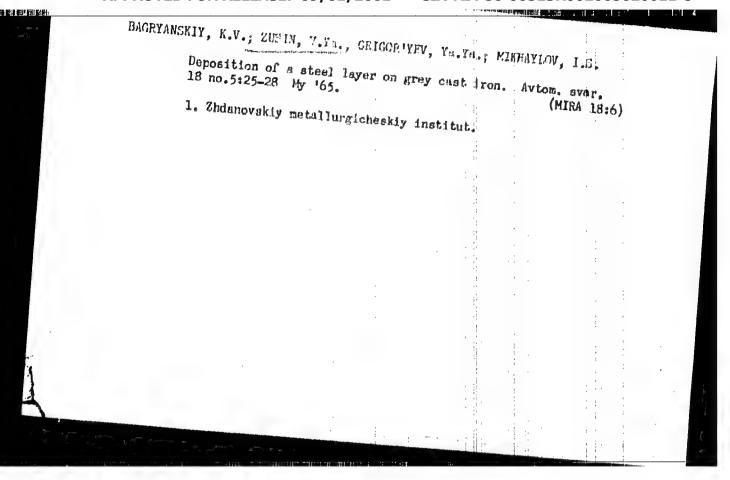
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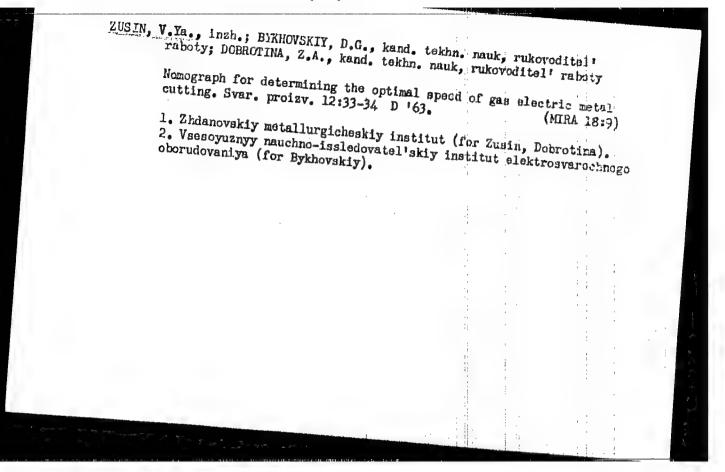
Dependence of the amount of heat less caused by mechanical underburning on operating conditions of the boiler unit [with summary in English]. Tepleonergetika 5 no.10:17-18 0 '58. (MIRA 11:10)

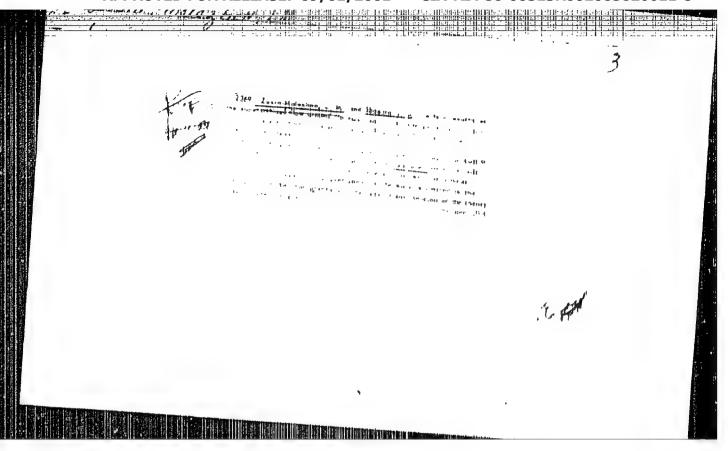
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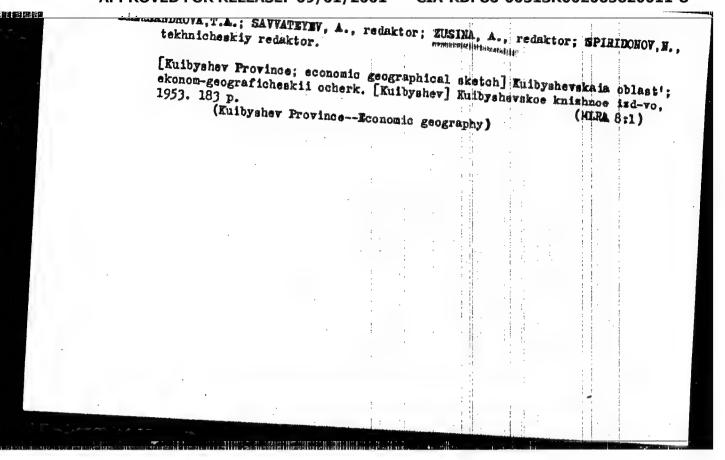


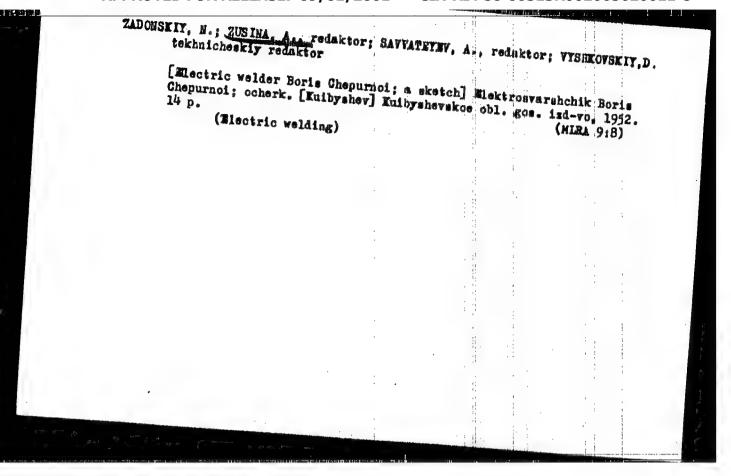
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SAVVATEVEV, A.; ZUSINA, A., redaktor; Makarov, S., tekhnicheskiy redaktor

[Mikhail Volchkov; a sketch] Mikhail Volchkov; ocherk. [Myubyshev,

Kuibyshevakoe obl. gos. izd.-vo, 1952 30 p. (MIRA 9:8)

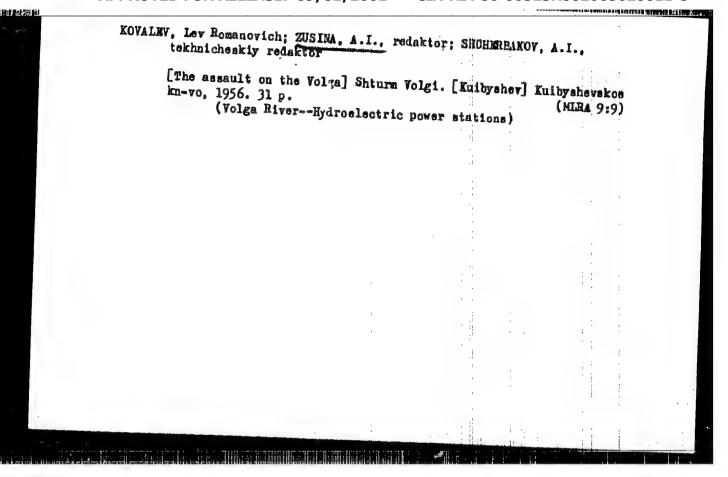
(Volchkov, Mikhail IAkovlevich)

YEPLEYEV, A.P.; ZUSINA A.I., redaktor; SPIRIDOMOV, E.F., tekhnicheskiy redaktor; SHCHEMENACV, A.I., tekhnicheskiy redaktor

[Experience in applied science instruction in the schools] I opyta politekhnicheskogo obucheniia v shkole. [Enibyshev] Kuibyshevskee kn-vo, 1954, 113 p.

(MEA 9:10)

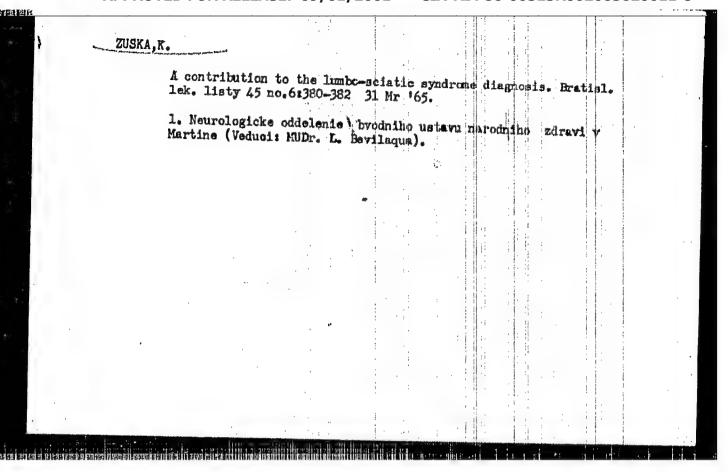
1. Kuybyshevskaya oblast'. Institut usovershenstvovaniya uchiteley (Science--Study and teaching)



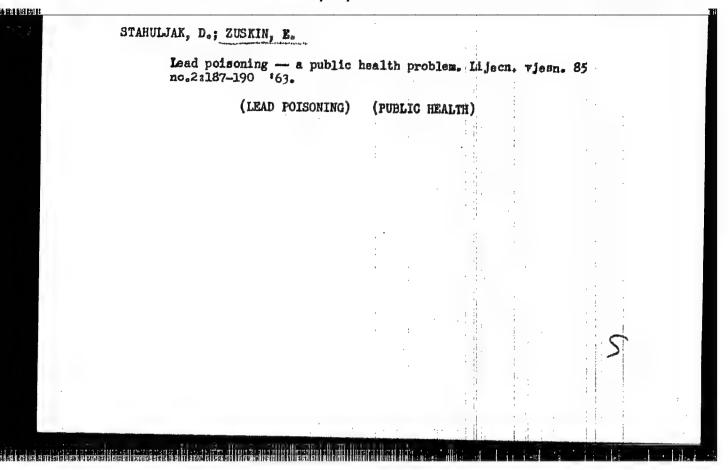
The first instar larvae of the genus Trixa Meigen, and remarks on the systematics and nomenclature of this genus (Diptera, Larvaevoridae). Cas entom 59 no.1:80-86 '62

1. Regional Museum, Cheb. Author's address: Oblastni museum, Namesti Ceskoslovenske armady, Cheb.

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	ACC NR. AP6006742 SOURCE CODE: 02/0002/65/000/(07/02/99/0301
	AUTHOR: Zuska, K.
	ORG: Neurology Department, OUNZ, Martin (Neurologicke oldelerie OUNZ)
7+	TITLE: Thrombophlebitis of the sinus cavernosus
	SOURCE: Ceskoslovenska neurologie, no. 4, 1965, 299-301
E.	TOPIC TAGS: circulatory system disease, blood
¥.	ABSTRACT: A case is described where thromboph Lebitis of the cavernous sinus extending into the
130 4 a	jugular veins caused in its severe course metastatic dissemine- tion. It is shown that even such an apparently hopeless case can
	be saved by comprehensive treatment and a full recovery achieved with the patient becoming again fully active and capable of
	working. [JPRS]
	SUB CODE: 06 / SUBM DATE: 210ct64 / DRIG REF: 001 / ORH REF: 012
	Card 1/1
- TEPPEN	



JAKAC, D.; ZUSKIN, Eugenija

Occupational derm uses in petroleum refining. Arh. hig. rada
15 no.1:15-25 164.

1. Medicinski fakultet lijeka i Skrla narodnog zdravlja
A. Stampar, Medicinski fakultet Sveunjista u Zagreba.

YUGOSLAVIA

Dr Dunja STAHULJAK and Dr Eugenija ZUSKIN [Affiliation not given]

"Lead Intoxication - A Problem of Public Health."

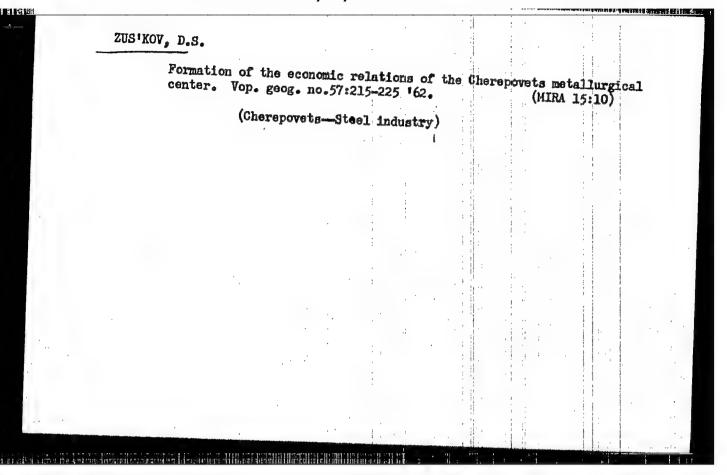
Zagreb, Lijecnicki Vjesnik, Vol 85, No 2, 1963; pp 187-190.

Abstract: While industrial saturnism is not found at all in Yugoslavia at present, lead intoxication continues to be frequent due to lead glaze used on domestically made earthenware pots: 11 cases were recorded in 2616 through 1963: 29 references including 8 Yugoslav, 1 Soviet; rest Western languages.

1/1

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 School notebooks on economic My-Je '57.	geography.	Geog. v	shkole 20 no	20 no.):50-52 (MIRA 10:6)	
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CHILIKIN, M.G., prof., red.; ZUSMAN, kand. tekhn nauk, red.; YEZHKOV, V.V., red.; IARIOMOV, G.N., tekhn. red.

[Machine tool electric equipment, Pt.1. Electric machines and appartus for machine tools] Mlektrooborudovanie metalloreshushchikh stankov. Moskva, Gos. energ. ind-vo. Pt.1. Electricheskie mashiny i apparaty dlia matalloreshushchikh stankov. 1958. 87 p.

(Machine tools)

(Machine tools)

ZUSMAN, A.D.; SHABASHOV, S.P., kand. tekhn.nauk, retsenzent;

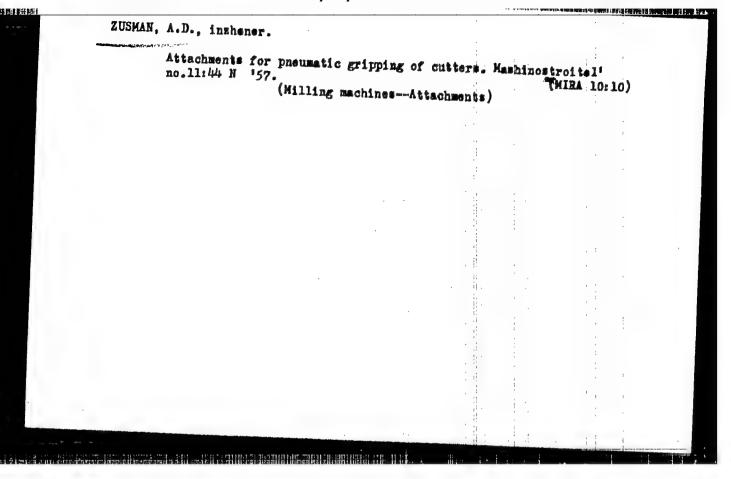
BASKAKOV, G.V., kand. tekhn. nauk, red.; SMIRNOV, G.V.,

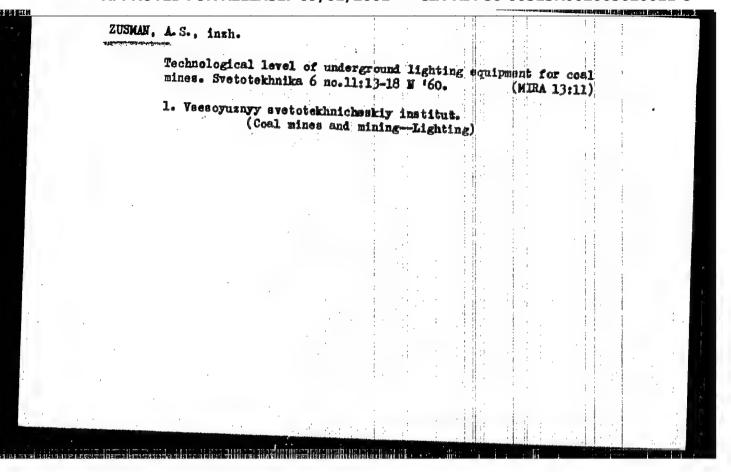
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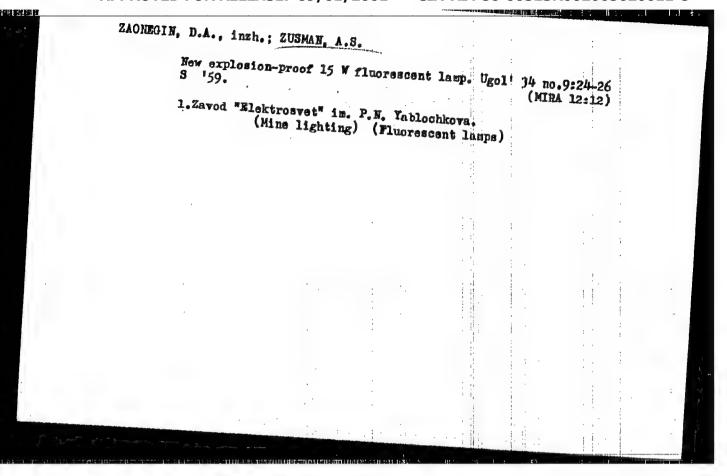
[Machining holes on drilling machines] Obrabotka otverstii

na sverlil'nykh stankakh. Moskva, Mashgiz, 1963. 129 p.

(NIRA 17:3)







Hew products for e no.7:77-78 Jl 157.	lectric installations,	ABBE 4 GT GKE	(MLBA 10:9)	:
1. Zavod "Elektros	vet." (Electric apparatus and	applinaces	)	
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ZUSMAN, A. S., and Sal'Tsevich, L. A.

"Electric Lighting Equipment for Buildings Liable to Explosions"

report presented at the All-Union Scientific and Technical Conference on the Electrical Equipment in Buildings and Outside Installations Liable to Explosions, 14-19 April 1958, Stalino

(Energet. Byulleten', 1958, No. 7, pp 29-33)

CIA-RDP86-00513R002065620011-8

AUTHORS: Zusman, A.S. (Engineer) and Rozental E.S. (Engineer).

TITLE: New electrical fittings. (Novye elektroustanovochnye izdeliya).

PERIODICAL: "Vestnik Elektropromyshlennosti" (Journal of the Electrical Industry), Vol.28, No.7, 1957, pp.77-78 (USSR).

ABSTRACT: The Elektrosvet works has developed a series of new electrical fittings. These are made of new materials such as steatite, amino-plastics, and etched or nickel-plated brass. The article describes a number of fittings such as switch-sockets, push-button switches, plugsockets with cover, a delay switch that leaves staircase lights on for a limited time, connecting boxes, lampholders with chain-operated switches, lighting fittings for refrigerators and others.

There are 8 figures.

ASSOCIATION: Elektrosvet works. (Zavod "Elektrosvet").
AVAILABLE:

Card 1/1

Candidate for Technical Sciences

On: Electronic Equipment; EMIMS Institute; Gor'kly Machine Tool Plant

Soviet Source: P: Stauk: i Instrument No. 8 (Machine Tools and Cutting tools) Aug '47

Abstracted in USAF "Treasure Island", on file in Library of Congress, Air Information

Division, Report No. 28219

ZUSMAN, G.

"A Theory of Positrons; #II," Zhur. Eksper. i Teoret. Fiz., 11, No. 6, 1941.

Mbr., Physics Inst., Leningrad Order Lenin State Univ., Im. Budnov, -1941-.

# "APPROVED FOR RELEASE: 09/01/2001

### CIA-RDP86-00513R002065620011-8

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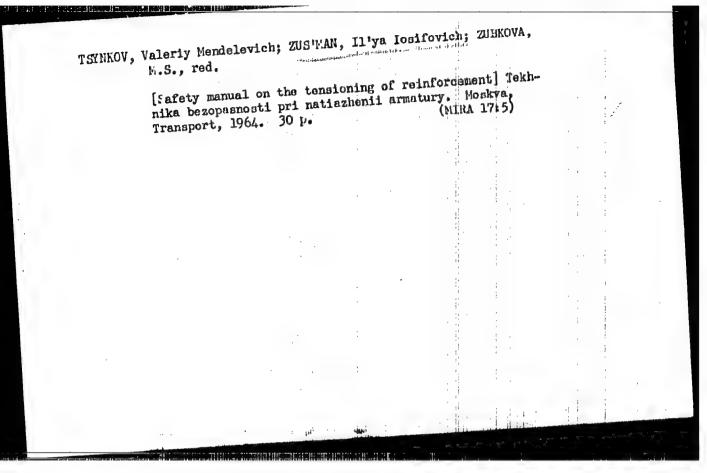
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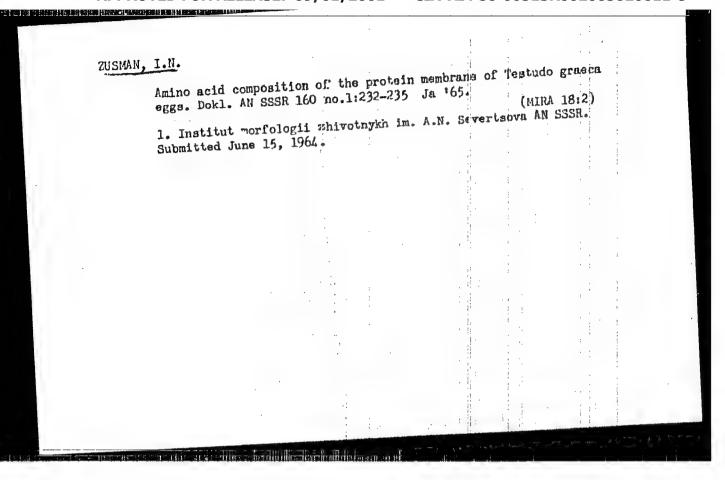
CIA-RDP86-00513R002065620011-8

SLAVIN, Devid Osipovich [deceased]; Prinimeli uchastive: SLAVIN, L.D., insh.; ZUNAN, I.G., insh., red.; TATURA, G.L., tekhn.red.

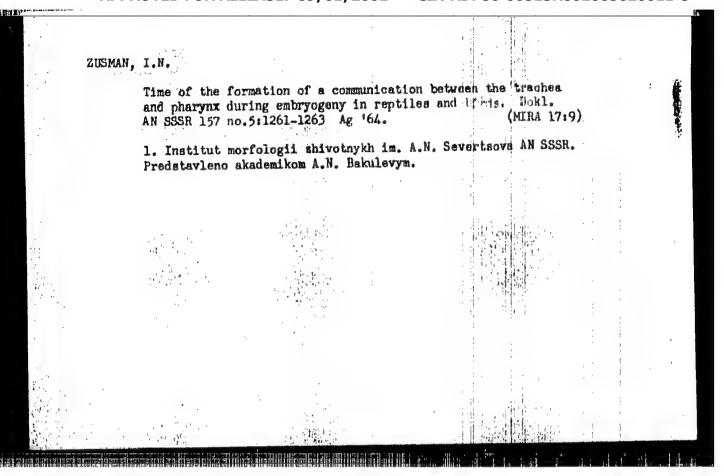
[Technology of metals and other materials] Tekhnologiia metallov
[drugikh materialov. Moskva, Gos.uchebno-pedegog, ind-vo M-va
idrugikh materialov. [WIRA 13:10]
prosv.RSFSR, 1960. 514 p.

(Metallurgy) (Metalwork) (Monmetallic materials)





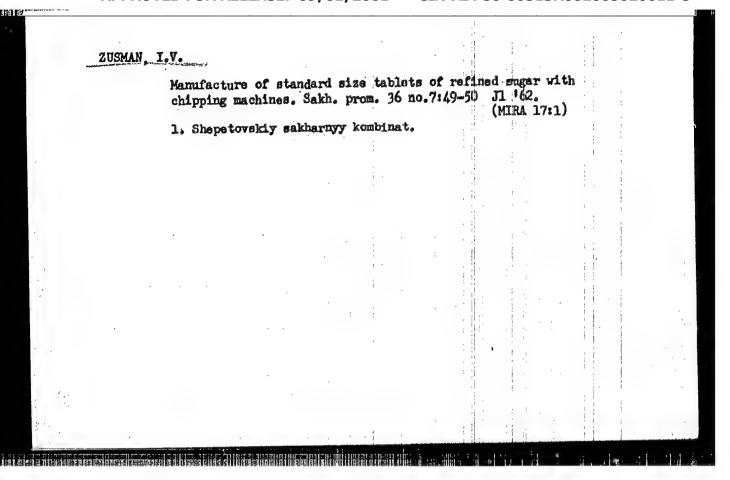
# Rate of the occurrence of morphological and functional maturity of the digestive organs in the embryogenesis of terrestrial tortoises (Testudinidae). Dokl. AN SSSR 163 no.1:266-268 J1 '65. (MIRA 18:7) 1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR, Submitted January 20, 1965.



RAGOZINA, M.N.; ZUSMAN, I.N.

Ecological and functional significance of the protein membrane of the egg in the embryogenesis of Tentudo gracea. Izv. AN SSSR. Ser. biol. no.6:898-908 N-D 165. (HIRA 18:11)

1. Institut morfologii zhivotnykh im. A.M. Savertzova AN SSSM.



Z.USMan, L.

137-1957-12-22866

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 7 (USSR)

AUTHOR:

Zusman, L.

TITLE:

Possibilities for Saving Raw Materials and Supplies in Ferrous Metallurgy (Rezervy ekonomii syr'ya i materialov v chernoy metallurgii)

PERIODICAL: Plan. kh-vo, 1957. Nr 5, pp 70-76

ABSTRACT: One of the irrevocable losses in the metallurgical industry is the waste of Fe contained in the escaping blast-furnace dust, in the slags of electric and blast-furnace production, in the waste of Fe ore during the concentration process, in the scrap intermixed with debris, in iron scale, in hearth cinder, and in the flue gases of the steel-making industry, The recovery of Fe at Soviet metallurgical plants increased by 4.4 percent in 1955 over that of 1951. This improvement was achieved through the increased recovery of Fe in every branch of metallurgical production. It is essential that maximum Fe losses permissible in the concentration process be determined from careful estimates. It is also necessary to improve the quality and the proportion of the agglomerate in the charge, to reduce the spoilage and scrap in the blast furnace shops

Card 1/2

137-1957-12-22866

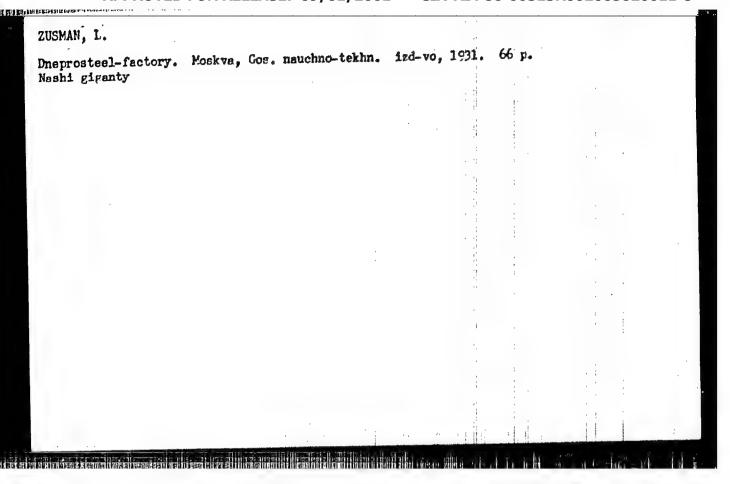
Economy Reserves of Material and Raw. (cont.)

to 4-6 kg, and to improve blast furnace production in the course of the next few years to an average utilization level of 0.950-0.960, instead of 0.923, of the Fe contained in the raw material. The open-hearth shops should increase their annual output by 1.0-1.5 percent on the average, i.e., they should raise the utilization of Fe to 92.5-93 percent. A reduction or complete elimination of shrinkage cavities in cast steel should be achieved either by raising the temperature of the sinkhead of the ingot or by means of electric heating. The improvement of the purification process of the blast-furnace gases and the maximum reclamation of scrap is essential, as well as the solution of the problem of utilizing the primary open-hearth slags, the scaling, and the hearth cinder.

A. Sh.

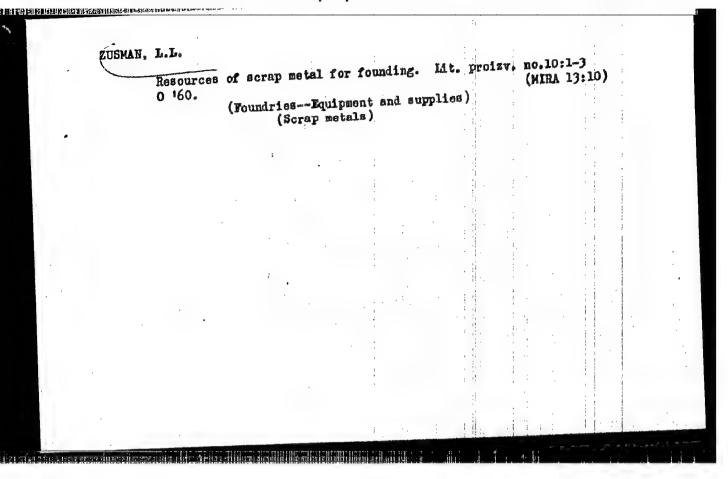
1. Metallurgy-USSR 2. Materials-Control 3. Production-Control

Card 2/2



ZUSMAN, L. and A. LEVIN Dnepro-Stal'. Goskva, Gos. nauchntekhn. izdvo, 1931.	66 p. (Nash	i giganty.)			
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ZUSMAN, L.L., kand.ekon.na Life of metals.	Stal 20 no.8:758-76	2 Ag (60. (MIRA 13:7)	
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77618 sov/133-60-2-18/25

AUTHOR:

Zusman, L. L. (Candidate of Economic Sciences), and Bro-

dov, A. A. (Engineer)

TITLE:

Economy and Organization of Production. Iron Balance

in National Economy

engan merupakan dianah dianggan menganyang

PERIODICAL:

Stal', 1960, Nr 2, pp 160-164 (USSR)

ABSTRACT:

The balance of iron in the national economy is indicated by the growth of the national metal reserve related to iron supplied from natural resources, metal scrap, and by total iron waste at different stages of production and in the functions of metal fund during the period reviewed. In 1956, the balance of iron in the national economy was based on the balance of iron in such phases of industry as: agglomerate, blast furnace, open-hearth furnace, as: agglomerate, electromelting, rolling, pipe rolling, steel melting, foundry, hardware, electroferroalioys, steel melting, and construction. It was also based on the statistical data of both the national metal fund and

Card 1/2

Economy and Organization of Production. Iron 77518
Balance in National Economy SOV/133-60-2-18/25

the foreign trade in ferrous metals and metal products. In 1956, the amount of iron ore mined and other rudimentary raw materials produced contained 45,600,000 tons of iron ore including 40,900,000 tons that were processed. In the same year, all stages of production and development of ferrous metals salvaged 27,800,000 tons of reusable metal scrap containing 24,600,000 tons of iron. In the field of foreign trade, 4,700,000 tons of iron ore, together with 4,000,000 tons of iron content in cast iron, rolled iron, and other metal products, were exported; in the same period, 2,100,000 tons of iron content in cast iron, rolled iron, and other metal products were imported. Therefore, in 1956, iron export exceeded iron import by 6,600,000 tons. The investigation of the iron balance in ferrous metallurgy was performed by A. A. Tsvetayev, and the balance of scrap with the participation of M. P. Lapitskaya and N. F. Sklokin. There are 8 tables; and 6 Soviet references.

ASSOCIATION: Card 2/2

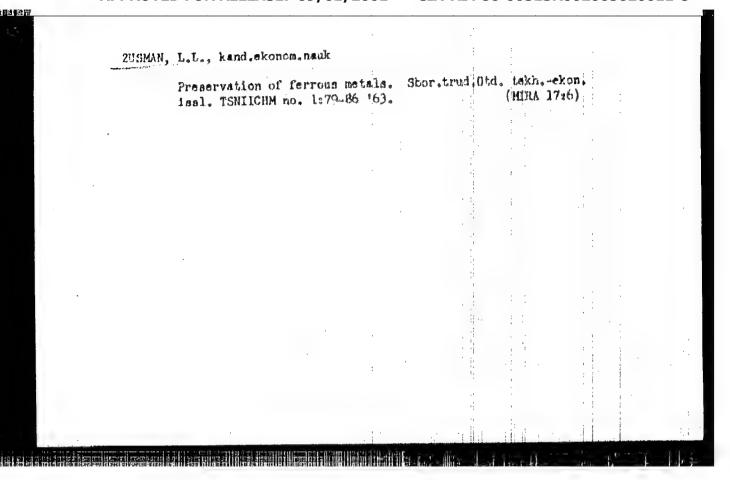
Central Scientific Research Institute of Ferrous Metallurgy (TsNIIChM)

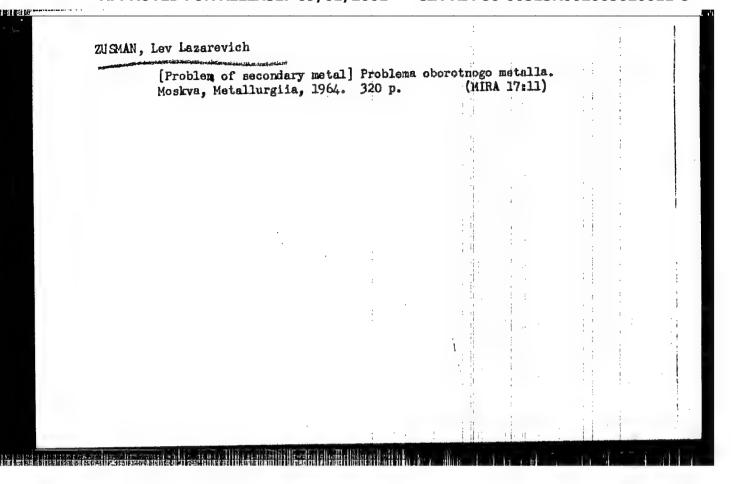
BRODOV, A.A.; ZUSMAN, L.L.

Balance of managaness in the U.S.S.R. Stal' 25 no.2;168172 F '65.

(MIRA 18:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii imeni I.P. Bardina.





Correlation between iron and steel production. Stal' 18 no.4:358-363
Ap '58.

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Blast furnaces) (Open-hearth furnaces)

Throw programmy or specify of provider	ron balance in		OV, A.A., in	Stal 1 2	0 no.2:1	60-164
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133-58-4-29/40

Zusman, L. L. Candidate of Economical Science AUTHOR:

On the Problem of the Ratio Between the Production of TITLE:

Iron and Steel (K voprosu o sootnoshenii mezhdu

vyplavkoy chuguna i stali)

PERIODICAL: Stal', 1958, Nr 4, pp 358-363 (USSR)

ABSTRACT: The relationship between the volumes of production of

pig iron and steel is discussed. It is concluded that in 1965 the production of steel will be either by 38 or 36% higher than the production of pig iron depending on the total output of steel which may be either 80 or 90 mil. tons respectively. In the ratio of the production of pig iron and steel the U.S.S.R. is on the same level as

capitalistic Europe as a whole but lags behind Great

Britain and the U.S.A. There is one table.

ASSOCIATION: TENIICHM

1. Steel industry--USSR 2. Iron industry---USSR

Card 1/1

ZUSMAN, L.L.

133-7-21/28

AUTHOR: Zusman, L.L. Candidate of Economic Sciences.

Economy of Raw Materials in the Iron and Steel Industry

TITLE: Economy of Raw materials in out allurgii)
(Ekonomiya syr'ya r chernoy metallurgii)

PERIODICAL: Stal', 1957, No.7, pp. 644 - 650 (USSR)

ABSTRACT: On the basis of data obtained from iron balances prepared by enterprises of the Ministry of Iron and Steel for 1939, 51, and 55 on sintering, blast furnace, steel-making and rolling outputs as well as on reports on the operation of beneficiation plants, the progress in the degree of utilisation of iron in the industry is discussed. The following data are collected in the form of tables: Table 1 - the composition of materials used in 1955 in the iron and steel industry: Table 2 - iron balance for 1955 according to the Ministry of the Iron and Steel Industry; Table 3 - the distribution of iron according to the Industry; Table 3 - the distribution of iron according to the industry; Table 4 - dynamics of the distribution of iron in the iron and steel industry in a single production cycle; Table 5 - dynamics of the utilisation of iron in the individual production cycles (without taking into consideration the use of by-products); Table 6 - mean coefficients of consumption of metal, kg/ton for rolling products; Table 7 - dynamics of the distribution of iron in the Cardl/2iron and steel industry in repeated production cycles; Table 8 -

Economy of Raw Materials in the Iron and Steel Industry.

the content of iron in waste products per ton of finished steel in 1956 in kg.
There are 8 tables.

ASSOCIATION: TSNIICHM

AVAILABLE: Library of Congress.

Card 2/2

ZUSMAN, L.L.; BRODOV, A.A.

New prices for ferrous metal scrap and discards. Stal! 24 no.10:935-940 0 '64. (MIRA 17:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni I.P. Bardina.

(Turnover Krugoobord Metallurgi	it matalla	v mrcou	TIOM Prior	economy ziaistve	of the SSSR. (MIR.	U.S.S.R.] Moskva, A 15:10)		
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41000	Economic advantages in the production of Stal' 16 no.12:1099-1103 D '56.	lightwei	ght rolled a (MLRA 10:9)	ections	•
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Economy of raw materials in the iron industry. Stal' 17 no.7:644-650
J1 '57.

1.TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.

(Iron industry) (Waste products)

ZUSMAN, Lev Lazarevich; GORELIE, I.O., red.; BEUSHTEIN, A.I., red.izd-va;
IELEET'TEVA, P.O., tekhn.red.

[Economising ferrous metals] Ekonomia chernych metallur. Moskva,
Goslnauchno-tekhn.izd-vo lit-ry po chernoi i tavetnoi metallurgii,
(MIRA 12:3)

1958. 255 p.

(Iron) (Steel)

AUTHOR:

ZUSMAN, L.L., SKLOKIN, N.F.

PA - 2422

TITLE:

Iron Balance in Blast Furnace Production. (Balans zheleza v

domennom proizvodstve, Russian)

Stal', 1957, Vol 17, Nr 3, pp 264-267 (U.S.S.R.)

Reviewed: 6 / 1957

PERIODICAL:

■ 医多种性结果性结合性性患者与核肝病氏性医切除的治疗性原理性肝病性疾病性病性患者。

Received: 5 / 1957

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ABSTRACT:

The costs of orude iron ore amount to 25-30% of production costs of pig iron. The iron content in the iron one which is used in the furnace varies from 35 - 56%. Also the metal additions in which the iron content amounts to from 50% (welding slags) to 75-90% (chips, pig iron soraps) play a certain part. Also by open hearth slag (12-15%), and manganese ore (about 3%), some iron is added to the burden. It is useful to refer the consumption of all kinds of raw material and material to one ton of pig iron and to calculate it in relation to the iron contained in the latter. The relation of the average content of iron per ton of usable pig iron to the total content of iron in the raw material used for the production can be taken as a basis for the determination of the level of iron consumption. The investigations demonstrate that the influence of the blast furnace production on the composition of metal has increased. This shows an important positive trend in the development of blast furnace production in the USSR. In 1955 also 1.462.000 t steel chips were used in the production of cast iron and open hearth pig iron apart from pig iron scraps and pig iron chips. It would be better to use these for steel production.

Card 1/2

Iron Balance in Blast Furnace Production.

PA - 2422

The sintering of the orushed iron ore is of decisive importance for the saving of pig iron ore. The increase of gas pressure at the furnace top is an important factor for the increase of the production as it reduces the losses due to dust by 20-50% and at the end of 1955 it resulted in the production with increased gas pressure of more than 70% of the total pig iron output. Compared with the losses in flue dust those caused by waste form only a minor part, but (3 Tables).

ASSOCIATION:

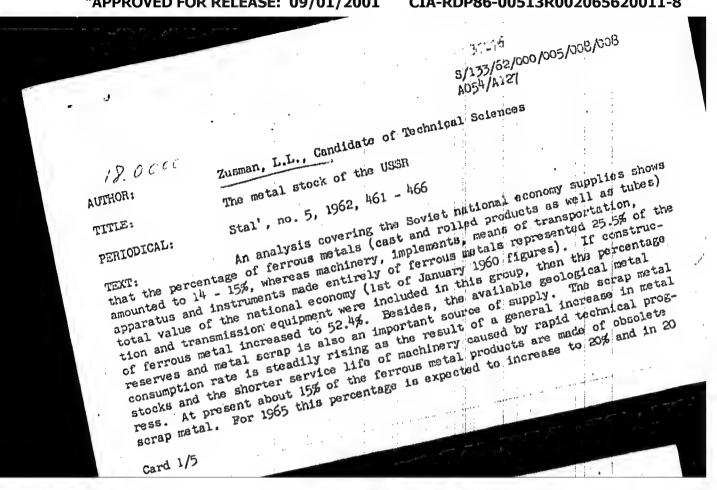
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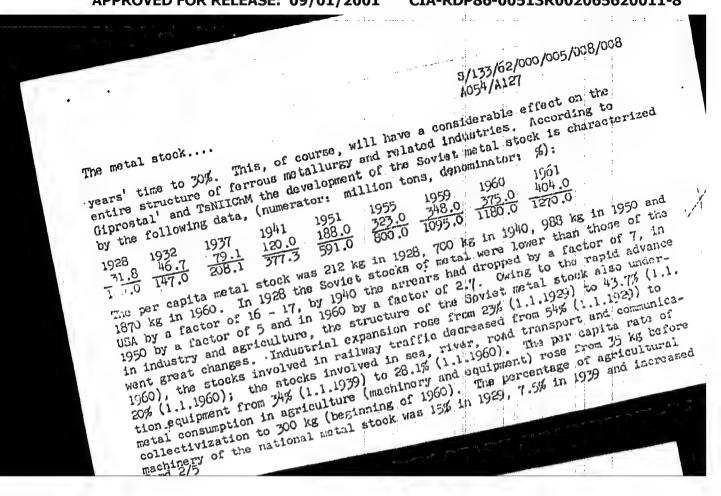
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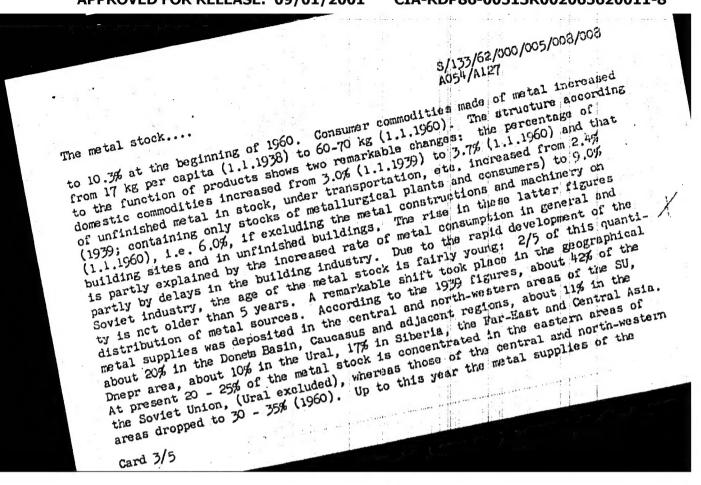
SUBLITTED; AVAILABLE;

Library of Congress

Card 2/2







8/133/62/000/005/008/008 A054/A127

The metal stock .....

Ural increased by a factor of 4 as compared with the 1930 figure, while the general rate of increase in stocks was 3 for this period. The development of the USA and the USSR metal stock can be compared by the following data: (in million tons annual increase)

1960 1959 1956 1958 1957 1954 1955 Years 1950 29.0 27.0 25.0 23.4 23.0 22.0 20.0 11.3 USSR 16.0 15.0 9.0 19.0 21.0 18.0

USA 22.0 29.0 21.0 18.0 19.0 9.0 15.0 16.0 1720,000,000 tons in 1967-1968, i.e. to 60-65% of the USA-stocks estimated for this period.

Card 4/5

# "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R002065620011-8

The metal stock....

S/133/62/000/c05/008/008

steel in 20 years' time, which will increase the metal stocks of this country to as follows: A survey and analysis of the supply and availability of obsolete of commerce, 15 January 1957, Battelle Memorial Institute, New York, 1957).

ASSOCIATION: Tenlichm

S/133/62/000/c05/008/008

A054/A127

to another the metal stocks of this country to as follows: A survey and analysis of the supply and availability of obsolete of Commerce, 15 January 1957, Battelle Memorial Institute, New York, 1957).

ZUSMAN, L.L., kand.ekonom.nauk

Preseravtion of ferrous metals. Stal' 23 no.4:365-369 Ap '63.
(MIRA 16:4)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.
(Steel)